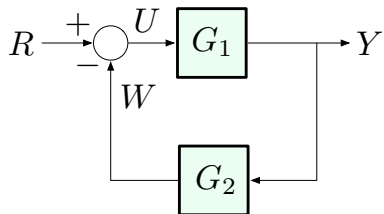


Basic System Interconnections: Negative Feedback



$$\Rightarrow Y = \frac{G_1}{1 + G_1 G_2} R$$

The gain of a negative feedback loop:

$$\frac{\text{forward gain}}{1 + \text{loop gain}}$$

This is an important relationship, easy to derive — no need to memorize it.